

a charge storing means including a plurality of photodetecting elements, each of said photodetecting elements being for storing a charge in accordance with an incident light; and

a charge transfer means for transferring [said] the charge stored in [said] the charge storing means,

wherein [the crystal growth direction coincides with] a charge transfer direction of the charge transfer means is arranged in the crystal growth direction.

[ Please amend claim 2 as follows. ]

2. (Amended) A semiconductor device comprising:

a plurality of photodiodes being formed in a matrix on an insulating surface;

a plurality of vertical charge coupled devices on the insulating surface, said vertical charge coupled devices being connected with the plurality of photodiodes;

at least a horizontal charge coupled device on the insulating surface, said horizontal charge coupled device being connected with the vertical charge coupled device,

wherein each of the vertical and horizontal charge coupled devices comprises a crystalline semiconductor film